

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 67

tggttctgat cagttccggc

20

<210> 68

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 68

cccatgatgg ttctgatcag

20

<210> 69

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 69

tgtccagccc atgatggttc

20

<210> 70

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 70

ctcccggagg aagtccaatg

20

<210> 71

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 71

gccgctcccc gaggaagtcc

20

<210> 72

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 72

gtcttgatc cagcccaaca

20

<210> 73

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 73

ccaccctggt cttggatcca

20

<210> 74
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 74
gtcccaacca ccctggtctt

20

<210> 75
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 75
aggaggccgt cccaaccacc

20

<210> 76
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 76
gtaggagagg aggccgtccc

20

<210> 77
<211> 20
<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 77

agatgggtcac ggtctgccac

20

<210> 78

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 78

aaagatgggtc acggtctgcc

20

<210> 79

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 79

cgccacaaag atgggtcacgg

20

<210> 80

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 80

ttccagatgg tgagcgaggc

20

<210> 81

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 81

tcttccagat ggtgagcgag

20

<210> 82

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 82

cttcttccag atggtgagcg

20

<210> 83

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 83

catcttcttc cagatggtga

20

<210> 84
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 84
cagcccatct tcttccagat

20

<210> 85
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 85
gcacagggcc ttgagcacca

20

<210> 86
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 86
aatgcccatg tcccccaatc

20

<210> 87
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 87

ctcaagacca cttttcccca

20

<210> 88

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 88

tttttgggtc ccgaaggagg

20

<210> 89

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 89

cccaccttga gcaccagttt

20

<210> 90

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 90

agctgcccac cttgagcacc

20

<210> 91

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 91

tccagtaaat gcttggtgaa

20

<210> 92

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 92

tcaccctgc acgtgaactc

20

<210> 93

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 93

tgaaccaaga tcatgccatt

20

<210> 94

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 94

ggcagagggtt gcagtgaacc

20

<210> 95

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 95

caaatccgtc ttccaaataa

20

<210> 96

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 96

aggttgcgcc attgcactcc

20

<210> 97

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 97

tggcacatgc ctgtaatccc

20

<210> 98

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 98

atacaaaatt accgggcgtg

20

<210> 99

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 99

cttggtgcac agggcctgtg

20

<210> 100

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 100

gatgaaaccc cgcctctggg

20

<210> 101

<211> 2707

<212> DNA

<213> Mus musculus

<220>

<220>

<221> CDS

<222> (2674) ... (2707)

<400> 101

ctagattagg ttggcttggt tgtgggaatt atctttgttg attgaagcgc caagtctcag	60
cccactgtgg gtgactccat tccctaggca gggacttctg gactatgtag gagtggagaa	120
agtaaaactca gcattgacct ggatacattc attcaccaca ctttgctggt gactatggat	180
gtgatgtggc taggccctgc tgggtgtgacg ttctgtctct ggctgtcctt gaactcagag	240
agatggtcct gcattctcct cctgtgtgct aggtttcaaa ccatgcacca caatgccag	300
ctatgttgat tgattgattt tcatgtgaaa cacctctcaa ggcccaggga catatctgac	360
ttctgagaag acttgagttt caaaggcagc cactgtctct agtacatcag ccaggcatta	420
aaggatacat ttggagatca ccatgtgtca agcagtgtgc tagtttctag ggaattgaga	480
acaaatgaat acagtcttct tgggaaacca aggtaggtga gagccaccag caatgaacga	540
aaacactgca cacaaaatta attacagtgc tgtgaagcat aataaaaccc agtgggttaa	600
aaaagagaaa agaaaagaaa agaaaagaag agaaaagaaa gccgggctg gtggcgacg	660
cctttaatcc cagcactggg gaggcagagg caggcggatt tcggagttcg aggccagcct	720
ggctctacaaa gtgagttcca ggatagccag ggctatacag agaaaccctg tctcaaaaa	780
cccacaaaaa cagaaaagaa aagaaaagaa aagaaaagaa gggaaaagag aagaaaaagg	840
agagctgccc gtggtggtgc acaccttcaa tccccgcaca gaagaagagg caggcggttc	900
tctatgttgg aggcagcct ggtctacaga ctgagttcca ggacagccag ggctccacag	960

aagctgtttc aaataacaaa caaaaactct ggggtgctttc agagcttttt caacagagga 1020
ctcaagccaa gaggcctttct gacaccaga taactctacc cttcccctgc tcaaaacttc 1080
ccctgggtct caggtctcag acaccctcag aagactgata aattcctgca agaaaactcc 1140
agagtgtctg tcttgacctg ctgctacttc acattattcc tctcttctct ccttcttctc 1200
ttttttttct ttctcttctt tttttttttt ccaaaccagg gtttctctaa gtagccatgg 1260
ctgtcctgga actggctttg tagtccaggc tgacctgaa ctcagagatc tactttcctg 1320
cgctctgagg gctgggatta aaagcataca caaccacat ctgactcttt tttcttcttc 1380
ctcctcttct ccttctctct cctcctcttc cttttgcttg gcctcctagg ctggcttcag 1440
attcacagca attcttcata ggttctggga ttacaggtat gggccacat accagggtct 1500
ctttgcaact cccatcttcc tcccggtttc ttgttttgat taaggatctc agtatctaac 1560
ttaattgacc tgtcacttgc tatgtagact tgtgttttgt aaggtatgag tgaggatatg 1620
tgaggtgaga aggggtacct agagggccca tctctgagaa atcccttctt cctgaagtac 1680
cggccatgta gtagtagca ccagatgatg tagtatggaa tagagtttat ttaggacatg 1740
ggaagtagag tttgggaaag gaggagagag agagaaagga ggggaggaga agtagtgag 1800
agagaagaga ccctccagaa acacctggaa ggcggggaag gggagagaag gagaacggg 1860
gcagggagag aaggggcagg aagtaagaga ataagacaag taagttagca ggagagcgag 1920
gagggggcaa acagtcctta tatagtaggc taggcatacc tgactgttgc caggtaacta 1980
tggggcggag cctagaagga ctgcttctag gatgtctcaa tttcacaggc atctgcttgc 2040
ttgtagttcc caaggctgaa attaaagatg ttgtagccac cgcgtacagc ctgtttttgt 2100
gttttgagat agattcttac ttaatggtgc agcttggaact caaactatct tatccaggct 2160
tgctcgaac tctttagcaa tcttcttgct tctctctatc agaggtatgg accatcctc 2220
tggtcaactg gttttttttt ttttctccc cagactggag caatctctta tagtgcagg 2280

tggttttgag ctcgaggcaa tactcccgtc ctacctcagc ctctcaatgc tgggatgaca 2340
agatatccca ggcaagcttt gaacttgcg caattctgct ttaacctcct tagtgctctc 2400
taccatgaat ctatgggaag aagaaataat gggggcgggg ggggaaacaa ccaactctgg 2460
gcatcagttc ggattaaggt cgatccgcgc atgcgttcat ttagtaccgc cgccccgcc 2520
cctgcagcga gcgatgatga tcacgtgact agtcctgcgg ggcggaggcc atgttgcggg 2580
gcacccacgt gagggccgca cgtccacgat cagtcacgtg accgtggtgc gccgcagccg 2640
ccggggcgca cccggcgaga ggcagcggca gtg atg gac ggg tcc ggg gag cag 2694
Met Asp Gly Ser Gly Glu Gln
1 5
ctt ggg agc ggc g 2707
Leu Gly Ser Gly
10

<210> 102

<211> 457

<212> DNA

<213> Mus musculus

<220>

<400> 102

agaaggccag cgccacctcc tcccaccccc agctggggtc gtgtttgctt ttggcattct 60
gctctctggg tttgctgtgg agctgggatg caggccgggt cccgccccct gtccatcaga 120
agcagtagcc aggccttcca tgctacttgt cactactagg gtccccagct ctgtctcccc 180
tcagggttat gagcctacct atccatcccc ctgactctcc ctgggaccca ggagtcagg 240
cacccttttc ctctctcttc ccccagggcc caccagctct gaacagatca tgaagacagg 300
ggcctttttg ctacagggtt tcatccagga tcgagcaggg aggatggctg gggagacact 360
gagctgacct tggagcagcc gccccaggat gcgtccacca agaagctgag cgagtgtctc 420

cggcgaattg gagatgaact ggacagcaat atggagc

457

<210> 103

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 103

cctgtcttca tgatctgttc

20

<210> 104

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 104

ggtgtctccc cagccatcct

20

<210> 105

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 105

cagctcaggt gtctccccag

20

<210> 106

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 106

ccaaggtcag ctcaggtgtc

20

<210> 107

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 107

gctgctccaa ggtcaggtca

20

<210> 108

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 108

gggcggctgc tccaaggtca

20

<210> 109

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 109

ccaattcgcc ggagacactc

20

<210> 110

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 110

ctgcagctcc atattgctat

20

<210> 111

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 111

tcagcaatca tcctctgcag

20

<210> 112

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 112

ccacgtcagc aatcatcctc

20

<210> 113
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 113
tccgtgtcca cgtcagcaat 20

<210> 114
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 114
ggagtccgtg tccacgtcag 20

<210> 115
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 115
tgccacccgg aagaagacct 20

<210> 116
<211> 20
<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 116

gcaaacatgt cagctgccac

20

<210> 117

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 117

ttgccatcag caaacatgtc

20

<210> 118

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 118

agttgaagtt gccatcagca

20

<210> 119

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 119

cccagttgaa gttgccatca

20

<210> 120

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 120

ccacgcggcc ccagttgaag

20

<210> 121

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 121

agtttgctag caaagtagaa

20

<210> 122

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 122

tgagcaccag tttgctagca

20

<210> 123
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 123
acagggcctt gagcaccagt

20

<210> 124
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 124
tagtgcacag ggccttgagc

20

<210> 125
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 125
tttagtgcac agggccttga

20

<210> 126
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 126

ctcgggcact ttagtgaca

20

<210> 127

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 127

agctcgggca ctttagtgca

20

<210> 128

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 128

gatcagctcg ggcactttag

20

<210> 129

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 129

tggttctgat cagctcgggc

20

<210> 130

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 130

ccatgatggg tctgatcagg

20

<210> 131

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 131

aagtccagtg tccagcccat

20

<210> 132

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 132

aggaagtcca gtgtccagcc

20

<210> 133

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 133

cggaggaagt ccagtgtcca

20

<210> 134

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 134

gatccagaca agcagccgct

20

<210> 135

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 135

tggtcttgga tccagacaag

20

<210> 136

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 136

tcccagccac cctggtcttg

20

<210> 137

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 137

atggtcactg tctgcatgt

20

<210> 138

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 138

aagatgggtca ctgtctgcca

20

<210> 139

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 139

gccacaaaga tggtcactgt

20

<210> 140

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 140

aggactccag ccacaaagat

20

<210> 141

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 141

cgaggcggtg aggactccag

20

<210> 142

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 142

tccagatggt gagcgaggcg

20

<210> 143

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 143

ttcttccaga tggtagcgga

20

<210> 144

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 144

tcagcccatc ttcttccaga

20

<210> 145

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 145

gcaggaccat ctctctgagt

20

<210> 146

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 146

tggtttgaaa cctagcacac

20

<210> 147

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 147

agatatgtcc ctgggccttg

20

<210> 148

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 148

aaactagcac actgcttgac

20

<210> 149

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 149

cctaccttgg tttccaaga

20

<210> 150

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 150

gctgggatta aaggcgtgcg

20

<210> 151

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 151

aaatccgcct gcctctgcct

20

<210> 152

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 152

ggcctccaac atagagaacc

20

<210> 153

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 153

atctgggtgt cagaaagcct

20

<210> 154

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 154

cgcaggaaag tagatctctg

20

<210> 155

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 155

agcaagtgac aggtcaatta

20

<210> 156

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 156

aaacaggctg tacgcggtgg

20

<210> 157

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 157

agttgaccag agtgatggtc

20

<210> 158

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 158

gtcacgtgat catcatcgct

20

<210> 159

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 159

ggacccgtcc atcactgccg

20

<210> 160

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 160

actgcttctg atggacaggg

20

<210> 161

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 161

ggcctggcta ctgcttctga

20

<210> 162

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 162

gcatggaagg cctggctact

20

<210> 163

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 163

gtagtgacaa gtagcatgga

20

<210> 164

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 164

accctagtag tgacaagtag

20

<210> 165

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 165

taggctcata accctgaggg

20

<210> 166

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 166

atggataggt aggctcataa

20

<210> 167

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 167

ctggactcct gggccccagg

20

<210> 168

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 168

tcagagctgg tgggccctgg

20

SEQUENCE LISTING

<110> Hong Zhang
Andrew T. Watt

<120> ANTISENSE MODULATION OF BCL2-ASSOCIATED X PROTEIN EXPRESSION

<130> RTS-0185

<160> 168

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 1

tccgtcatcg ctcctcaggg

20

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 2

atgcattctg cccccaagga

20

<210> 3

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<220>

<221> CDS

<222> (1)...(657)

<400> 3

atg gac ggg tcc ggg gag cag ccc aga ggc ggg ggg ccc acc agc tct	48
Met Asp Gly Ser Gly Glu Gln Pro Arg Gly Gly Gly Pro Thr Ser Ser	
1 5 10 15	
gag cag atc atg aag aca ggg gcc ctt ttg ctt cag ggt ttc atc cag	96
Glu Gln Ile Met Lys Thr Gly Ala Leu Leu Leu Gln Gly Phe Ile Gln	
20 25 30	
gat cga gca ggg cga atg ggg ggg gag gca ccc gag ctg gcc ctg gac	144
Asp Arg Ala Gly Arg Met Gly Gly Glu Ala Pro Glu Leu Ala Leu Asp	
35 40 45	
ccg gtg cct cag gat gcg tcc acc aag aag ctg agc gag tgt ctc aag	192
Pro Val Pro Gln Asp Ala Ser Thr Lys Lys Leu Ser Glu Cys Leu Lys	
50 55 60	
cgc atc ggg gac gaa ctg gac agt aac atg gag ctg cag agg atg att	240
Arg Ile Gly Asp Glu Leu Asp Ser Asn Met Glu Leu Gln Arg Met Ile	
65 70 75 80	
gcc gcc gtg gac aca gac tcc ccc cga gag gtc ttt ttc cga gtg gca	288
Ala Ala Val Asp Thr Asp Ser Pro Arg Glu Val Phe Phe Arg Val Ala	
85 90 95	
gct gac atg ttt tct gac ggc aac ttc aac tgg ggc cgg gtt gtc gcc	336
Ala Asp Met Phe Ser Asp Gly Asn Phe Asn Trp Gly Arg Val Val Ala	
100 105 110	
ctt ttc tac ttt gcc agc aaa ctg gtg ctc aag gcc ctg tgc acc aag	384
Leu Phe Tyr Phe Ala Ser Lys Leu Val Leu Lys Ala Leu Cys Thr Lys	
115 120 125	
gtg ccg gaa ctg atc aga acc atc atg ggc tgg aca ttg gac ttc ctc	432
Val Pro Glu Leu Ile Arg Thr Ile Met Gly Trp Thr Leu Asp Phe Leu	

130	135	140	
cgg gag cgg ctg ttg ggc tgg atc caa gac cag ggt ggt tgg gtg aga			480
Arg Glu Arg Leu Leu Gly Trp Ile Gln Asp Gln Gly Gly Trp Val Arg			
145	150	155	160
ctc ctc aag cct cct cac ccc cac cac cgc gcc ctc acc acc gcc cct			528
Leu Leu Lys Pro Pro His Pro His His Arg Ala Leu Thr Thr Ala Pro			
	165	170	175
gcc cca ccg tcc ctg ccc ccc gcc act cct ctg gga ccc tgg gcc ttc			576
Ala Pro Pro Ser Leu Pro Pro Ala Thr Pro Leu Gly Pro Trp Ala Phe			
	180	185	190
tgg agc agg tca cag tgg tgc cct ctc ccc atc ttc aga tca tca gat			624
Trp Ser Arg Ser Gln Trp Cys Pro Leu Pro Ile Phe Arg Ser Ser Asp			
	195	200	205
gtg gtc tat aat gcg ttt tcc tta cgt gtc tga			657
Val Val Tyr Asn Ala Phe Ser Leu Arg Val			
	210	215	

<210> 4

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 4

ccgccgtgga cacagact

18

<210> 5

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 5

ccggccccag ttgaagtt

18

<210> 6

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 6

cccgaagaggt ctttttccga gtggc

25

<210> 7

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 7

gaaggtgaag gtcggagtc

19

<210> 8

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 8

gaagatggtg atgggatttc

20

<210> 9

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 9

caagcttccc gttctcagcc

20

<210> 10

<211> 579

<212> DNA

<213> Mus musculus

<220>

<220>

<221> CDS

<222> (1)...(579)

<400> 10

atg gac ggg tcc ggg gag cag ctt ggg agc ggc ggg ccc acc agc tct
Met Asp Gly Ser Gly Glu Gln Leu Gly Ser Gly Gly Pro Thr Ser Ser
1 5 10 15

48

gaa cag atc atg aag aca ggg gcc ttt ttg cta cag ggt ttc atc cag
Glu Gln Ile Met Lys Thr Gly Ala Phe Leu Leu Gln Gly Phe Ile Gln
20 25 30

96

gat cga gca ggg agg atg gct ggg gag aca cct gag ctg acc ttg gag
Asp Arg Ala Gly Arg Met Ala Gly Glu Thr Pro Glu Leu Thr Leu Glu
35 40 45

144

cag ccg ccc cag gat gcg tcc acc aag aag ctg agc gag tgt ctc cgg
Gln Pro Pro Gln Asp Ala Ser Thr Lys Lys Leu Ser Glu Cys Leu Arg
50 55 60

192

cga att gga gat gaa ctg gat agc aat atg gag ctg cag agg atg att
Arg Ile Gly Asp Glu Leu Asp Ser Asn Met Glu Leu Gln Arg Met Ile
65 70 75 80

240

gct gac gtg gac acg gac tcc ccc cga gag gtc ttc ttc cgg gtg gca 288
 Ala Asp Val Asp Thr Asp Ser Pro Arg Glu Val Phe Phe Arg Val Ala
 85 90 95

gct gac atg ttt gct gat ggc aac ttc aac tgg ggc cgc gtg gtt gcc 336
 Ala Asp Met Phe Ala Asp Gly Asn Phe Asn Trp Gly Arg Val Val Ala
 100 105 110

ctc ttc tac ttt gct agc aaa ctg gtg ctc aag gcc ctg tgc act aaa 384
 Leu Phe Tyr Phe Ala Ser Lys Leu Val Leu Lys Ala Leu Cys Thr Lys
 115 120 125

gtg ccc gag ctg atc aga acc atc atg ggc tgg aca ctg gac ttc ctc 432
 Val Pro Glu Leu Ile Arg Thr Ile Met Gly Trp Thr Leu Asp Phe Leu
 130 135 140

cgt gag cgg ctg ctt gtc tgg atc caa gac cag ggt ggc tgg gaa ggc 480
 Arg Glu Arg Leu Leu Val Trp Ile Gln Asp Gln Gly Gly Trp Glu Gly
 145 150 155 160

ctc ctc tcc tac ttc ggg acc ccc aca tgg cag aca gtg acc atc ttt 528
 Leu Leu Ser Tyr Phe Gly Thr Pro Thr Trp Gln Thr Val Thr Ile Phe
 165 170 175

gtg gct gga gtc ctc acc gcc tcg ctc acc atc tgg aag aag atg ggc 576
 Val Ala Gly Val Leu Thr Ala Ser Leu Thr Ile Trp Lys Lys Met Gly
 180 185 190

tga 579

<210> 11

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 11

agacacctga gctgaccttg ga

22

<210> 12

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 12

gagacactcg ctcagcttct tg

22

<210> 13

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 13

agccgccccca ggatgcgtc

19

<210> 14

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 14

ggcaaattca acggcacagt

20

<210> 15

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 15

gggtctcgcct cctggaagat

20

<210> 16

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 16

aaggccgaga atgggaagct tgtcatc

27

<210> 17

<211> 677

<212> DNA

<213> Homo sapiens

<220>

<220>

<221> CDS

<222> (1)...(495)

<400> 17

atg gac ggg tcc ggg gag cag ccc aga ggc ggg ggg ccc acc agc tct
Met Asp Gly Ser Gly Glu Gln Pro Arg Gly Gly Gly Pro Thr Ser Ser
1 5 10 15

48

gag cag atc atg aag aca ggg gcc ctt ttg ctt cag ggt ttc atc cag
Glu Gln Ile Met Lys Thr Gly Ala Leu Leu Gln Gly Phe Ile Gln

96

20

25

30

gat cga gca ggg cga atg ggg ggg gag gca ccc gag ctg gcc ctg gac 144
Asp Arg Ala Gly Arg Met Gly Gly Glu Ala Pro Glu Leu Ala Leu Asp
35 40 45

ccg gtg cct cag gat gcg tcc acc aag aag ctg agc gag tgt ctc aag 192
Pro Val Pro Gln Asp Ala Ser Thr Lys Lys Leu Ser Glu Cys Leu Lys
50 55 60

cgc atc ggg gac gaa ctg gac agt aac atg gag ctg cag agg atg att 240
Arg Ile Gly Asp Glu Leu Asp Ser Asn Met Glu Leu Gln Arg Met Ile
65 70 75 80

gcc gcc gtg gac aca gac tcc ccc cga gag gtc ttt ttc cga gtg gca 288
Ala Ala Val Asp Thr Asp Ser Pro Arg Glu Val Phe Phe Arg Val Ala
85 90 95

gct gac atg ttt tct gac ggc aac ttc aac tgg ggc cgg gtt gtc gcc 336
Ala Asp Met Phe Ser Asp Gly Asn Phe Asn Trp Gly Arg Val Val Ala
100 105 110

ctt ttc tac ttt gcc agc aaa ctg gtg ctc aag gct ggc gtg aaa tgg 384
Leu Phe Tyr Phe Ala Ser Lys Leu Val Leu Lys Ala Gly Val Lys Trp
115 120 125

cgt gat ctg ggc tca ctg caa cct ctg cct cct ggg ttc aag cga ttc 432
Arg Asp Leu Gly Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Arg Phe
130 135 140

acc tgc ctc agc atc cca agg agc tgg gat tac agg ccc tgt gca cca 480
Thr Cys Leu Ser Ile Pro Arg Ser Trp Asp Tyr Arg Pro Cys Ala Pro
145 150 155 160

agg tgc cgg aac tga tcagaaccat catgggctgg acattggact tcctccggga 535
Arg Cys Arg Asn
165

gcggctgttg ggctggatcc aagaccaggg tggttgggac ggctcctct cctactttgg 595

gacgcccacg tggcagaccg tgaccatctt tgtggcggga gtgctcaccg cctcgtcac 655

catctggaag aagatgggct ga 677

<211> 579

<212> DNA

<213> Homo sapiens

<220>

<220>

<221> CDS

<222> (1)...(579)

<400> 18

atg gac ggg tcc ggg gag cag ccc aga ggc ggg ggg ccc acc agc tct	48
Met Asp Gly Ser Gly Glu Gln Pro Arg Gly Gly Gly Pro Thr Ser Ser	
1 5 10 15	

gag cag atc atg aag aca ggg gcc ctt ttg ctt cag ggt ttc atc cag	96
Glu Gln Ile Met Lys Thr Gly Ala Leu Leu Leu Gln Gly Phe Ile Gln	
20 25 30	

gat cga gca ggg cga atg ggg ggg gag gca ccc gag ctg gcc ctg gac	144
Asp Arg Ala Gly Arg Met Gly Gly Glu Ala Pro Glu Leu Ala Leu Asp	
35 40 45	

ccg gtg cct cag gat gcg tcc acc aag aag ctg agc gag tgt ctc aag	192
Pro Val Pro Gln Asp Ala Ser Thr Lys Lys Leu Ser Glu Cys Leu Lys	
50 55 60	

cgc atc ggg gac gaa ctg gac agt aac atg gag ctg cag agg atg att	240
Arg Ile Gly Asp Glu Leu Asp Ser Asn Met Glu Leu Gln Arg Met Ile	
65 70 75 80	

gcc gcc gtg gac aca gac tcc ccc cga gag gtc ttt ttc cga gtg gca	288
Ala Ala Val Asp Thr Asp Ser Pro Arg Glu Val Phe Phe Arg Val Ala	
85 90 95	

gct gac atg ttt tct gac ggc aac ttc aac tgg ggc cgg gtt gtc gcc	336
Ala Asp Met Phe Ser Asp Gly Asn Phe Asn Trp Gly Arg Val Val Ala	
100 105 110	

ctt ttc tac ttt gcc agc aaa ctg gtg ctc aag gcc ctg tgc acc aag	384
Leu Phe Tyr Phe Ala Ser Lys Leu Val Leu Lys Ala Leu Cys Thr Lys	
115 120 125	

gtg ccg gaa ctg atc aga acc atc atg ggc tgg aca ttg gac ttc ctc	432
---	-----

Val Pro Glu Leu Ile Arg Thr Ile Met Gly Trp Thr Leu Asp Phe Leu
130 135 140

cgg gag cgg ctg ttg ggc tgg atc caa gac cag ggt ggt tgg gac ggc 480
Arg Glu Arg Leu Leu Gly Trp Ile Gln Asp Gln Gly Gly Trp Asp Gly
145 150 155 160

ctc ctc tcc tac ttt ggg acg ccc acg tgg cag acc gtg acc atc ttt 528
Leu Leu Ser Tyr Phe Gly Thr Pro Thr Trp Gln Thr Val Thr Ile Phe
165 170 175

gtg gcg gga gtg ctc acc gcc tcg ctc acc atc tgg aag aag atg ggc 576
Val Ala Gly Val Leu Thr Ala Ser Leu Thr Ile Trp Lys Lys Met Gly
180 185 190

tga 579

<210> 19
<211> 263
<212> DNA
<213> Homo sapiens

<220>

<400> 19
accgtgacca tctttgtggc gggagtgtc cccccctcac tccccatttg gaaaaaatg 60
ggctgaggcc cccagctgcc ttggactgtg tttttccccc ataaattatg gcattttttt 120
gggaggggtg gggattgggg gacatgggca tttttcttac ttttgtaatt attggggggt 180
gtggggaaaa gtggtcttga gggggtaata aacctccttc gggacccaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaa 263

<210> 20
<211> 531
<212> DNA
<213> Homo sapiens

<220>

<400> 20

cgagaggtct ttttccgagt ggcagctgac atgttttctg acggcaactt caactggggc 60
cgggttgctg cccttttcta ctttgccagc aaactgggtgc tcaaggtggg cagctgcagg 120
gcagtgagcc cagggatgct cccctcaga tctgtgagga cctggggatc gtggtatcaa 180
ccccctgcag tggcccagtg accacagagg gcatggagag agatggctgt gcactgggtg 240
tctgctcctt cttttattca ttcaacaagc atttactgga cctgctatgt gccaggccta 300
tacctggcac ctgggacaca gcactgtaca aagcaggcta catccctgct ctcagggagt 360
tcacgtgcag ggggtgaagta aagtgggcag agtgatttag cagagtggac aggaaagatt 420
tctatTTTTT tttttttttt ttttgagatg gagttttgct cttgttgccc aggcttgagt 480
gcaatggcat gatcttggtt cactgcaacc tctgctccc aggttcaagc g 531

<210> 21

<211> 822

<212> DNA

<213> Homo sapiens

<220>

<400> 21

gagaggccta aaaggggagg agtcgggggg gggcgaccga aacatgaagt ggaaaggtgg 60
ggtcaggcca aggcgaggca acaaggggtt gggggggcac agtgctggtt cttatcgggg 120
gtaaggggag ccacagaggg tcaggggggg ggcagttgga gagtaacaat cttgttgaca 180
atTTTtatgtt ttatatTTat ttggaagacg gatttgctta tctccaaggc tggcgtgaaa 240
tggcgtgac tgggctcact gcaacctctg cctcctgggt tcaagcgatt cacctgcctc 300
agcatcccaa ggagctggga ttacaggtgc ctgccaccac accagctaa tttttgtatt 360

tatttatttt agagatggag ttttgctctt gttgtgccca ggctggagtg caatggcgca 420
 acctcggtc actgcaacct ccgcctcccg ggttcaagca attctcctgc ctcagactcc 480
 caagtagctg ggattacagg catgtgccac cacgccggg aattttgtat ttttagtaga 540
 gatggcatta ctcccgtaat tggtcaggct ggttttgaat ccggacttca agtgattccg 600
 ctgccttggc ctccccaaag tgctgggatt acaggcatga gccgccgcac ctggccatgt 660
 ttacaatttt tgaagccgat tcaattgtgg gtggcagaaa ttttgagggg aggcaaagaa 720
 ttgacaaagg aggtttgggg ccactatctc aggcagtggg gacaaggttc agtccctaac 780
 gccactcca ctccccacag gccctgtgca ccaaggtgcc gg 822

<210> 22
 <211> 126
 <212> DNA
 <213> Homo sapiens

<220>

<220>
 <221> CDS
 <222> (1)...(126)

<400> 22
 atg gac ggg tcc ggg gag cag ccc aga ggc ggg gtt tca tcc agg atc 48
 Met Asp Gly Ser Gly Glu Gln Pro Arg Gly Gly Val Ser Ser Arg Ile
 1 5 10 15
 gag cag ggc gaa tgg ggg ggg agg cac ccg agc tgg ccc tgg acc cgg 96
 Glu Gln Gly Glu Trp Gly Gly Arg His Pro Ser Trp Pro Trp Thr Arg
 20 25 30
 tgc ctc agg atg cgt cca cca aga agc tga 126
 Cys Leu Arg Met Arg Pro Pro Arg Ser
 35 40

<210> 23

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 23

tccagaaggc ccagggtccc

20

<210> 24

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 24

tatagaccac atctgatgat

20

<210> 25

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 25

aggaaaacgc attatagacc

20

<210> 26

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 26

tgggctgctc cccggacccg

20

<210> 27

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 27

ctcagagctg gtgggcccc

20

<210> 28

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 28

gatctgctca gagctggtgg

20

<210> 29

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 29

ccctgtcttc atgatctgct

20

<210> 30
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 30
cccctgtctt catgatctgc

20

<210> 31
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 31
gcccctgtct tcatgatctg

20

<210> 32
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 32
gggcccctgt cttcatgatc

20

<210> 33
<211> 20
<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 33

aaaagggccc ctgtcttcat

20

<210> 34

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 34

aaaccctgaa gcaaaaagggc

20

<210> 35

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 35

gaaaccctga agcaaaaaggg

20

<210> 36

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 36

ctggatgaaa ccctgaagca

20

<210> 37

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 37

cctggatgaa accctgaagc

20

<210> 38

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 38

tcctggatga aaccctgaag

20

<210> 39

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 39

cgatcctgga tgaaaccctg

20

<210> 40
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 40
gctcgatcct ggatgaaacc

20

<210> 41
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 41
ctgctcgatc ctggatgaaa

20

<210> 42
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 42
gccctgctcg atcctggatg

20

<210> 43
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 43

ggacgcatcc tgaggcaccg

20

<210> 44

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 44

tggacgcatc ctgaggcacc

20

<210> 45

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 45

cttcttggtg gacgcatcct

20

<210> 46

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 46

tcgctcagct tcttggtgga

20

<210> 47

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 47

acactcgctc agcttcttgg

20

<210> 48

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 48

gacactcgct cagcttcttg

20

<210> 49

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 49

gagacactcg ctcagcttct

20

<210> 50

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 50

cagctccatg ttactgtcca

20

<210> 51

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 51

tgcagctcca tggtactgtc

20

<210> 52

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 52

ctctgcagct ccatgttact

20

<210> 53

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 53

atcatcctct gcagctccat

20

<210> 54

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 54

ggcaatcatc ctctgcagct

20

<210> 55

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 55

gcggcaatca tcctctgcag

20

<210> 56

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 56

ggcggcaatc atcctctgca

20

<210> 57
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 57
 ctgtgtccac ggcggcaatc

20

<210> 58
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 58
 gtctgtgtcc acggcggcaa

20

<210> 59
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 59
 tcggaaaaag acctctcggg

20

<210> 60
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 60

gctgccactc ggaaaaagac

20

<210> 61

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 61

gtcagctgcc actcgaaaa

20

<210> 62

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 62

tcagaaaaca tgcagctgc

20

<210> 63

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 63

ttgccgtcag aaaacatgtc

20

<210> 64

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 64

gccccagttg aagttgccgt

20

<210> 65

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 65

cggccccagt tgaagttgcc

20

<210> 66

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 66

gcaaagtaga aaagggcgac

20

<210> 67